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BZT52C5V1LP - BZT52C24LP

SURFACE MOUNT ZENER DIODE

Lead-free Green

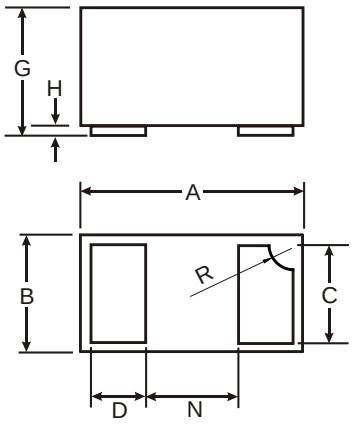
NEW PRODUCT

Features

- Ultra-Small Leadless Surface Mount Package
- Ideally Suited for Automated Assembly Processes
- **Lead Free By Design/RoHS Compliant (Note 1)**
- **"Green" Device (Note 2)**

Mechanical Data

- Case: DFN1006-2
- Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminal Connections: Cathode Dot (See marking information)
- Terminals: Finish ¾ NiPdAu annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208
- Marking: See Electrical Characteristics Table, Dot Denotes Cathode Side (See marking information)
- Ordering Information: See Page 3
- Weight: 0.001 grams



DFN1006-2			
Dim	**Min**	**Max**	**Typ**
A	0.95	1.075	1.00
B	0.55	0.675	0.60
C	0.45	0.55	0.50
D	0.20	0.30	0.25
G	0.47	0.53	0.50
H	0	0.05	0.03
N	¾	¾	0.40
R	0.05	0.15	0.10
All Dimensions in mm			

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic		Symbol	Value	Unit
Forward Voltage (Note 3)	@ I_F = 10mA	V_F	0.9	V
Operating and Storage Temperature Range		T_j, T_{STG}	-65 to +150	°C

Notes:
1. No purposefully added lead.
2. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.
3. Short duration pulse test used to minimize self-heating effect.

Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation	P_d	250	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	500	°C/W

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Electrical Characteristics @ T_A = 25°C unless otherwise specified

Type Number	Marking Codes	Zener Voltage Range (Note 4)				Maximum Zener Impedance (Note 5)			Maximum Reverse Current (Note 4)		Typical Temperature Coefficient @ I_{ZTC} mV/°C		Test Current I_{ZTC}
		V_Z @ I_{ZT}			I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R	@ V_R			
		Nom (V)	Min (V)	Max (V)	mA	Ω		mA	uA	V	Min	Max	mA
BZT52C5V1LP	9Y	5.1	4.8	5.4	5	60	480	1.0	2.0	2.0	-2.7	1.2	5
BZT52C5V6LP	9A	5.6	5.2	6.0	5	40	400	1.0	1.0	2.0	-2	2.5	5
BZT52C6V2LP	9B	6.2	5.8	6.6	5	10	150	1.0	3.0	4.0	0.4	3.7	5
BZT52C6V8LP	9C	6.8	6.4	7.2	5	15	80	1.0	2.0	4.0	1.2	4.5	5
BZT52C7V5LP	9D	7.5	7.0	7.9	5	15	80	1.0	1.0	5.0	2.5	5.3	5
BZT52C8V2LP	9E	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0	3.2	6.2	5
BZT52C9V1LP	9F	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0	3.8	7.0	5
BZT52C10LP	9G	10	9.4	10.6	5	20	150	1.0	0.2	7.0	4.5	8.0	5
BZT52C11LP	9H	11	10.4	11.6	5	20	150	1.0	0.1	8.0	5.4	9.0	5
BZT52C12LP	9J	12	11.4	12.7	5	25	150	1.0	0.1	8.0	6.0	10.0	5
BZT52C13LP	9K	13	12.4	14.1	5	30	170	1.0	0.1	8.0	7.0	11.0	5
BZT52C15LP	9L	15	13.8	15.6	5	30	200	1.0	0.1	10.5	9.2	13.0	5
BZT52C16LP	9M	16	15.3	17.1	5	40	200	1.0	0.1	11.2	10.4	14.0	5
BZT52C18LP	9N	18	16.8	19.1	5	45	225	1.0	0.1	12.6	12.4	16.0	5
BZT52C20LP	9P	20	18.8	21.2	5	55	225	1.0	0.1	14.0	14.4	18.0	5
BZT52C22LP	9R	22	20.8	23.3	5	55	250	1.0	0.1	15.4	16.4	20.0	5
BZT52C24LP	9S	24	22.8	25.6	5	70	250	1.0	0.1	16.8	18.4	22.0	5

Notes: 4. Short duration test pulse used to minimize self-heating effect.
5. f = 1kHz.

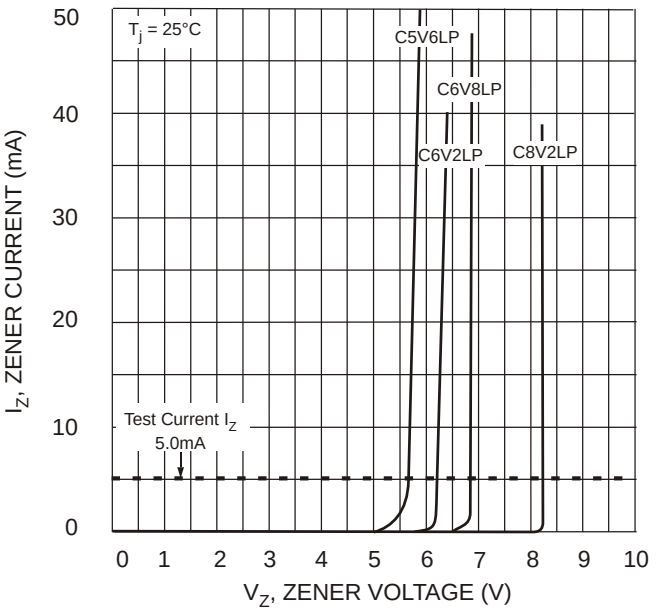

Fig. 1 Zener Breakdown Characteristics

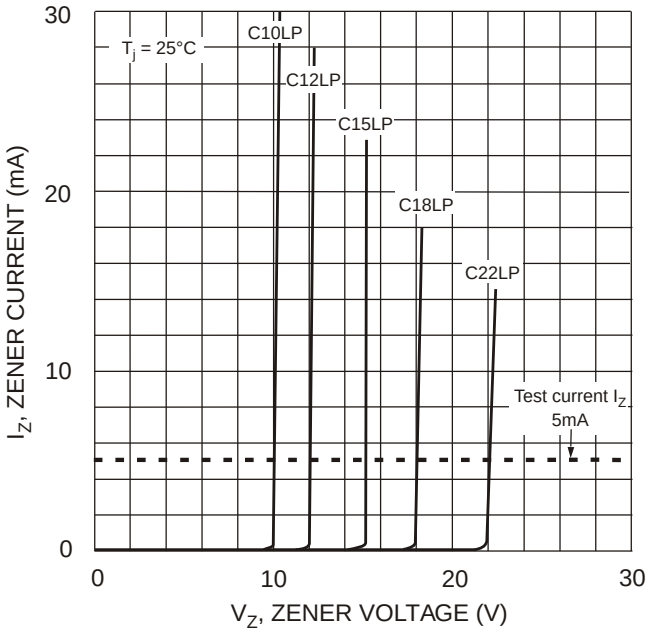

Fig. 2 Zener Breakdown Characteristics

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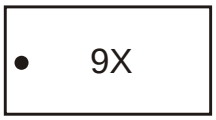
Ordering Information (Note 6)

Device	Packaging	Shipping
(Type Number)-7*	DFN1006-2	3000/Tape & Reel

* Add "-7" to the appropriate type number in Table 1 above example: 6.2V Zener = BZT52C6V2LP-7.

Notes: 6. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

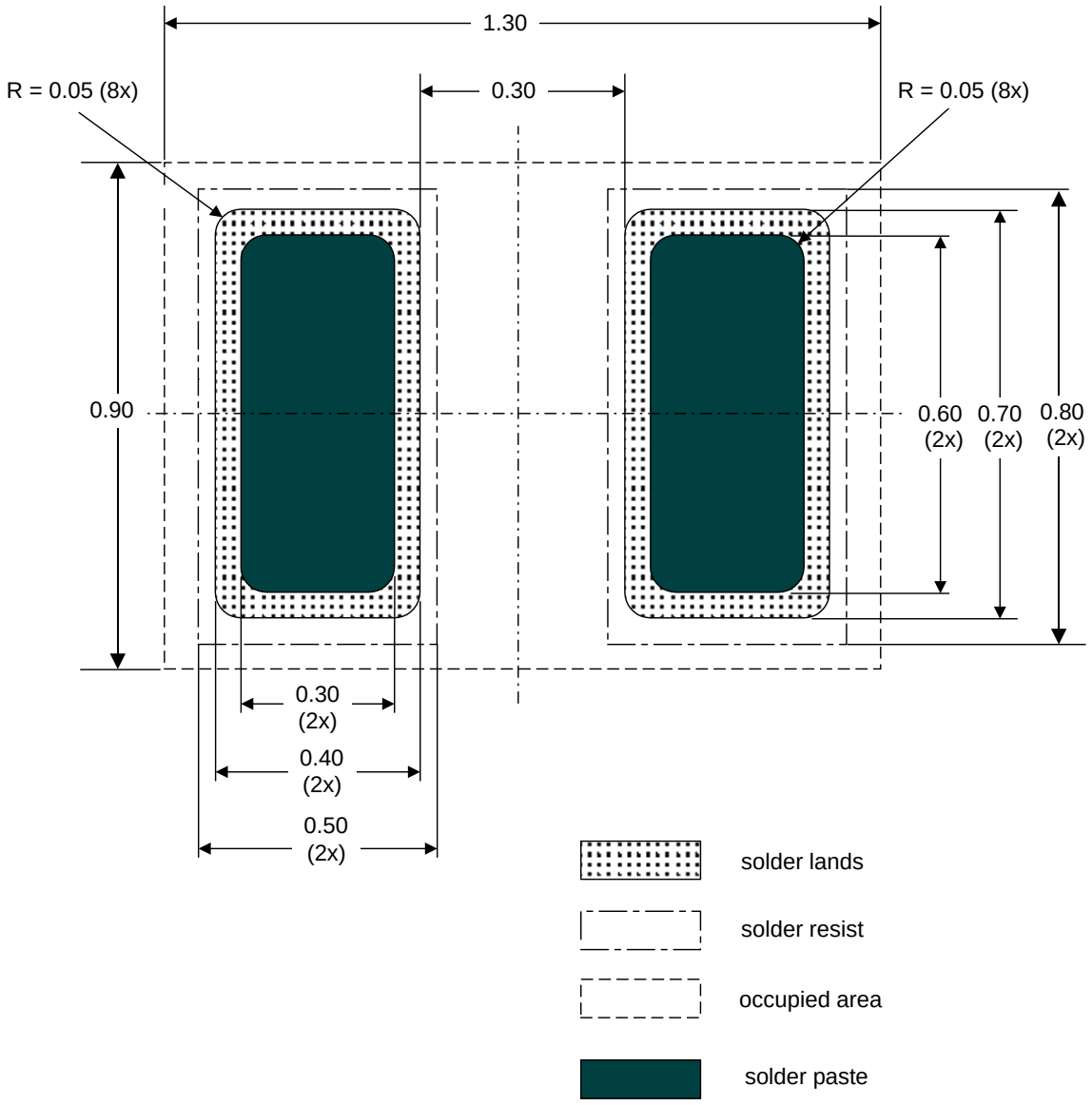
Marking Information



9X = Product Type Marking Code, Dot Denotes Cathode Side;
See Page 2

Suggested Pad Layout

Dimensions in mm.



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